

Title (en)

Apparatus for recovering solvent from exhaust air.

Title (de)

Vorrichtung zur Rückgewinnung eines Lösungsmittels aus Abluft.

Title (fr)

Dispositif pour récupérer un solvant de l'air d'échappement.

Publication

EP 0166488 A2 19860102 (EN)

Application

EP 85200978 A 19820308

Priority

- EP 82900679 A 19820308
- SE 8101469 A 19810309

Abstract (en)

Solvent contained in an air stream is adsorbed in a bed (11) of active carbon in a container through which the air stream passes. The solvent in the bed is desorbed by leading steam through the bed in counterflow to the through-air stream. The steam is led in via a pressure-withstanding, perforated vessel arranged in the bottom zone of the container. Desorbed solvent vapor and possible water vapor is condensed in cooling means, while the air outlet (32) of the container (4) is kept closed. During the adsorbing phase, the air stream is cooled with the aid of the cooling means (15) immediately before introduction into the carbon bed (11). During the desorbing phase, the desorbed solvent vapor and possible water vapor is condensed with the aid of the cooling means, the condensate being collected in a receptacle (8) arranged under the cooling means (15), preferably while the air intake conduit (37) of the container (4) is kept open. The condensate is taken away from the receptacle (8) via a waste pipe (9) to means (10) for separating solvent from water. Separated water is refluxed to the interior of the container (4), where water may be further liberated from solvent by contact with the steam.

IPC 1-7

B01D 53/04

IPC 8 full level

B01D 53/04 (2006.01)

CPC (source: EP)

B01D 53/04 (2013.01); **B01D 53/0407** (2013.01); **B01D 2253/102** (2013.01); **B01D 2257/704** (2013.01); **B01D 2259/401** (2013.01)

Cited by

ES2072195A2

Designated contracting state (EPC)

BE DE FR GB NL

DOCDB simple family (publication)

EP 0166488 A2 19860102; EP 0166488 A3 19870506

DOCDB simple family (application)

EP 85200978 A 19820308